PDR RID Report

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RID ID PDR 131
Review FOS
Originator Ref 007
Priority 2

Category Name Design **Actionee** Project
Sub Category
Subject TOO occurrence frequency discrepancy.

Description of Problem or Suggestion:

We are concerned about the following definition discrepancy.

- TOO occurrence frequency:

EOSDIS: approximately 2 times/month
ASTER GDS: approximately 2 times/day

Originator's Recommendation

GSFC Response by: S. Tompkins **GSFC Response Date** 2/15/95

The frequency of TOOs must be discussed between the Flight Operations Segment team and the ASTER GDS team. The design of the Flight Operations Segment will be designed to accommodate Targets of Opportunity. The frequency of targets of opportunity primarily affects the operations concepts and the staffing, with only minor impacts on the design.

A TOO is a late change that is submitted after the detailed activity schedule is defined, two days before the day of observation. The Flight Operations Segment currently has requirements that a TOO that requires a schedule change must be submitted at least 24 hours prior to the observation. If the TOO causes the telescope to be moved during the day, causes an existing ASTER observation to be deleted or modified, or causes command timing conflicts, the TOO would be considered a schedule change and would require the 24 hour lead time. If the TOO did not impact any existing activities, the lead time requirement is 6 hours. There is also a requirement of one hour for targets of opportunity that can be accomplished using real time commands, but it is not clear how ASTER would use this capability.

Some of the questions that need to resolved are:

a. Will the target of opportunity be added to the existing ASTER schedule or will the entire ASTER schedule be changed?

b. Characterize the targets of opportunity - are they all short observations? Will one target of opportunity result in more than one observation? What is the average and maximum data volume for a target of opportunity?

c. Will the target of opportunity significantly change the amount of spacecraft resources required by ASTER?

d. Will the ASTER GDS be staffed to perform planning and scheduling around the clock?

e. Will targets of opportunity interfere with other instruments (such as MISR)?

f. Will a target of opportunity occur prior to the completion of a previous target of opportunity?

g. What is the lead time for a target of opportunity?

These issues will be discussed at future meeting between EOSDIS and ASTER GDS, including the meetings in February and March. The results will be documented in the ECS/ASTER ICC ICD or in later operations agreements. This ICD will be written in the spring 1995.

HAIS Response by: D. Herring **HAIS Schedule** 2/17/95
HAIS R. E. **HAIS Response Date**

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HAIS R. E. **HAIS Response Date**

Status **Closed** **Date Closed** **2/24/95** **Sponsor** **Johns**

****** **Attachment if any** ******